Name of Work:Improvements to Roads and Drains at Nanjappa Layout Main Road, Cross Roads, Rammanna Garden and Surrounduing araes in Ward No.14 (Vidyaranyapura)

EMB

"FIRST AND FINAL BILL"

Name of Work:Improvements to Roads and Drains at Nanjappa Layout Main Road, Cross Roads, Rammanna Garden and Surrounduing araes in Ward No.14 (Vidyaranyapura)

PRE MEASUREMENT SHEETS

"FIRST AND FINAL BILL"

Name of Work:Improvements to Roads and Drains at Nanjappa Layout Main Road, Cross Roads, Rammanna Garden and Surrounduing araes in Ward No.14 (Vidyaranyapura)

Detailed Measurements

Date of Measurements

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
1	Removing and resetting of footpath slab						
	Nanjappa Layout 1st From Ramchandrapura Main To Vidyaranyapua Main Rd						
	From Ramchandrapura Main To Vidyaranyapua Main Rd						
	RHS						
	Ch: 0.00m to 7.30m	1	7.30		0.90	6.57	
	Ch: 7.30m to 18.40m	1	11.10		0.90	9.99	
	Ch: 18.40m to 21.30m	1	2.90		0.90	2.61	
	Ch: 21.30m to 29.30m	1	8.00		0.90	7.20	
	Ch:29.30m to 35.60m Rd Gap		6.30				
	Ch: 35.60m to 49.30m	1	13.70		0.90	12.33	
	Ch: 49.30m to 53.30m	1	4.00		0.90	3.60	
	Ch: 53.30m to 62.50m	1	9.20		0.90	8.28	
	Ch: 62.50m to 69.20m Rd Gap		6.70				
	Ch: 69.20m to 79.10m	1	9.90		0.90	8.91	
	Ch: 79.10m to 89.20m	1	10.10		0.90	9.09	
	Ch: 89.20m to 95.20m	1	6.00		0.90	5.40	
	Ch: 95.20m to 101.20m Culvert		6.00				
	Ch: 101.20m to 108.40m	1	7.20		0.90	6.48	
	Ch: 108.40m to 117.80m	1	9.40		0.90	8.46	
	Ch: 117.80m to 121.90m	1	4.10		0.90	3.69	
	Ch: 121.90m to 128.00m Culvert		6.10				
	Ch: 128.00m to 153.70m	1	25.70		0.90	23.13	
	Ch: 153.70m to 160.10m Rd Gap		6.40				
	Ch: 160.10m to 174.10m	1	14.00		0.90	12.60	
	Ch: 174.10m to 185.90m	1	11.80		0.90	10.62	
	Ch: 185.90m to 193.70m Rd Gap		7.80				
	Ch: 193.70m to 211.10m	1	17.40		0.90	15.66	
	Ch: 211.10m to 218.50m	1	7.40		0.90	6.66	
	Ch: 218.50m to 224.70m Rd Gap		6.20				
	Ch: 224.70m to 232.50m	1	7.80		0.90	7.02	
	Ch: 232.50m to 250.50m	1	18.00		0.90	16.20	
	Ch: 250.50m to 257.00m Rd Gap		6.50				
	Ch: 257.00m to 283.00m	1	26.00		0.90	23.40	
	Ch: 283.00m to 289.80m Rd Gap		6.80				
	Ch: 289.80m to 299.80m	1	10.00		0.90	9.00	

Contractor

Asst.Engineer

Asst.Exec.Engineer

Assistant Executive Engir
Vidyaranyapura Sub Divis
B.B.M.P, Bangalore - 97

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	Ch: 299.80m to 324.50m	1	24.70		0.90	22.23	
	Ch: 324.50m to 336.40m	1	11.90		0.90	10.71	
	Ch: 336.40m to 361.00m	1	24.60		0.90	22.14	
	Ch: 361.00m to 373.70m Gap		12.70				
	Ch: 373.70m to 393.80m	1	20.10		0.90	18.09	
	Ch: 393.80m to 410.40m Gap		16.60				
	Ch: 410.40m to 431.30m	1	20.90		0.90	18.81	
	Ch: 431.30m to 438.50m Culvert		7.20				
	Ch: 438.50m to 451.00m	1	12.50		0.90	11.25	
	Ch: 451.00m to 466.40m	1	15.40		0.90	13.86	
	Ch: 466.40m to 473.50m Rd Gap		7.10				
	Ch: 473.50m to 486.80m	1	13.30		0.90	11.97	
	Ch: 486.80m to 492.60m	1	5.80		0.90	5.22	
	Ch: 492.60m to 496.30m	1	3.70		0.90	3.33	
	Ch: 496.30m to 501.40m Gap		5.10				
	Ch: 501.40m to 508.20m Rd Gap		6.80				
	Ch: 508.20m to 538.20m	1	30.00		0.90	27.00	
	Ch: 538.20m to 568.20m	1	30.00		0.90	27.00	
	Ch: 568.20m to 591.10m	1	22.90		0.90	20.61	
	Ch: 591.10m to 598.10m Gap		7.00				
	Ch: 598.10m to 606.10m	1	8.00		0.90	7.20	
	LHS						
	Ch: 0.00m to 30.00m	1	30.00		0.90	27.00	
	Ch: 30.00m to 60.00m	1	30.00		0.90	27.00	
	Ch: 60.00m to 90.00m	1	30.00		0.90	27.00	
	Ch: 90.00m to 99.00m	1	9.00		0.90	8.10	
	Ch: 99.00m to 104.50m Rd Gap		5.50				
	Ch: 104.50m to 134.50m	1	30.00		0.90	27.00	
	Ch: 134.50m to 149.00m	1	14.50		0.90	13.05	
	Ch: 149.00m to 155.80m Culvert		6.80				
	Ch: 155.80m to 174.70m	1	18.90		0.90	17.01	
	Ch: 174.70m to 181.40m	1	6.70		0.90	6.03	
	Ch: 181.40m to 188.10m Culvert		6.70				
	Ch: 188.10m to 204.40m	1	16.30		0.90	14.67	
	Ch: 204.40m to 220.80m	1	16.40		0.90	14.76	
	Ch:220.80m to 227.30m Culvert		6.50				
	Ch: 227.30m to 257.30m	1	30.00		0.90	27.00	
	Ch: 257.30m to 259.50m	1	2.20		0.90	1.98	
	Ch: 259.50m to 266.50m Rd Gap		7.00				
	Ch: 266.50m to 296.50m	1	30.00		0.90	27.00	
	Ch: 296.50m to 297.50m	1	1.00		0.90	0.90	
	Ch:297.50m to 304.10m Rd Gap		6.60				
	Ch: 304.10m to 333.10m Gap		29.00				

Contractor

Asst.Engineer

Asst.Exec.Engineer

Assistant Executive Engin
Vidyaranyapura Sub Divisi
B.B.M.P, Bangalore - 97

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	Ch: 333.10m to 345.40m	1	12.30		0.90	11.07	
	Ch: 345.40m to 352.20m Culvert		6.80				
	Ch: 352.20m to 377.80m	1	25.60		0.90	23.04	
	Ch: 377.80m to 384.90m Culvert		7.10				
	Ch: 384.90m to 410.30m	1	25.40		0.90	22.86	
	Ch: 410.30m to 416.80m Culvert		6.50				
	Ch: 416.80m to 443.40m	1	26.60		0.90	23.94	
	Ch: 443.40m to 450.10m Culvert		6.70				
	Ch: 450.10m to 476.90m	1	26.80		0.90	24.12	
	Ch: 476.90m to 483.90m Culvert		7.00				
	Ch: 483.90m to 513.90m	1	30.00		0.90	27.00	
	Ch: 513.90m to 543.90m	1	30.00		0.90	27.00	
	Ch: 543.90m to 573.90m	1	30.00		0.90	27.00	
	Ch: 573.90m to 603.90m	1	30.00		0.90	27.00	
	Culverts						
		1	4.00		1.80	7.20	
		1	3.50		1.80	6.30	
		1	4.20		1.50	6.30	
		1	3.50		1.50	5.25	
		1	3.30		1.50	4.95	
		1	3.00		1.20	3.60	
		1	3.80		1.20	4.56	
		1	4.30		1.80	7.74	
		1	3.50		1.80	6.30	
		1	3.60		1.80	6.48	
		1	3.50		1.80	6.30	
					Total Qty	**952.83**	**Sqm**
					Upto 125%	**853.13**	**Sqm**
					Above 125%	**99.71**	**Sqm**

Contractor

Asst.Engineer

Asst.Exec.Engineer

Assistant Executive Engin
Vidyaranyapura Sub Divis
B.B.M.P, Bangalore - 97

Name of Work:Improvements to Roads and Drains at Nanjappa Layout Main Road, Cross Roads, Rammanna Garden and Surrounduing araes in Ward No.14 (Vidyaranyapura)

Detailed Measurements

Date of Measurements

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
2	Earth work Excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work						
	Desilt						
	Nanjappa Layout 1st From Ramchandrapura Main To Vidyaranyapua Main Rd						
	From Ramchandrapura Main To Vidyaranyapua Main Rd						
	RHS						
	Ch: 0.00m to 7.30m	1	7.30	0.60	0.50	2.19	
	Ch: 7.30m to 18.40m	1	11.10	0.60	0.55	3.66	
	Ch: 18.40m to 21.30m	1	2.90	0.60	0.60	1.04	
	Ch: 21.30m to 29.30m	1	8.00	0.60	0.55	2.64	
	Ch:29.30m to 35.60m Rd Gap		6.30				
	Ch: 35.60m to 49.30m	1	13.70	0.60	0.45	3.70	
	Ch: 49.30m to 53.30m	1	4.00	0.60	0.50	1.20	
	Ch: 53.30m to 62.50m	1	9.20	0.60	0.55	3.04	
	Ch: 62.50m to 69.20m Rd Gap		6.70				
	Ch: 69.20m to 79.10m	1	9.90	0.60	0.60	3.56	
	Ch: 79.10m to 89.20m	1	10.10	0.60	0.45	2.73	
	Ch: 89.20m to 95.20m	1	6.00	0.60	0.50	1.80	
	Ch: 95.20m to 101.20m Culvert		6.00				
	Ch: 101.20m to 108.40m	1	7.20	0.60	0.60	2.59	
	Ch: 108.40m to 117.80m	1	9.40	0.60	0.60	3.38	
	Ch: 117.80m to 121.90m	1	4.10	0.60	0.60	1.48	
	Ch: 121.90m to 128.00m Culvert		6.10				
	Ch: 128.00m to 153.70m	1	25.70	0.60	0.55	8.48	
	Ch: 153.70m to 160.10m Rd Gap		6.40				
	Ch: 160.10m to 174.10m	1	14.00	0.60	0.55	4.62	
	Ch: 174.10m to 185.90m	1	11.80	0.60	0.50	3.54	
	Ch: 185.90m to 193.70m Rd Gap		7.80				
	Ch: 193.70m to 211.10m	1	17.40	0.60	0.55	5.74	
	Ch: 211.10m to 218.50m	1	7.40	0.60	0.40	1.78	

Contractor

Asst.Engineer

Asst.Exec.Engineer

Assistant Executive Engine
Vidyaranyapura Sub Divisi
B.B.M.P, Bangalore - 97

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	Ch: 218.50m to 224.70m Rd Gap		6.20				
	Ch: 224.70m to 232.50m	1	7.80	0.60	0.50	2.34	
	Ch: 232.50m to 250.50m	1	18.00	0.60	0.55	5.94	
	Ch: 250.50m to 257.00m Rd Gap		6.50				
	Ch: 257.00m to 283.00m	1	26.00	0.60	0.60	9.36	
	Ch: 283.00m to 289.80m Rd Gap		6.80				
	Ch: 289.80m to 299.80m	1	10.00	0.60	0.55	3.30	
	Ch: 299.80m to 324.50m	1	24.70	0.60	0.50	7.41	
	Ch: 324.50m to 336.40m	1	11.90	0.60	0.45	3.21	
	Ch: 336.40m to 361.00m	1	24.60	0.60	0.50	7.38	
	Ch: 361.00m to 373.70m Gap		12.70				
	Ch: 373.70m to 393.80m	1	20.10	0.60	0.50	6.03	
	Ch: 393.80m to 410.40m Gap		16.60				
	Ch: 410.40m to 431.30m	1	20.90	0.60	0.55	6.90	
	Ch: 431.30m to 438.50m Culvert		7.20				
	Ch: 438.50m to 451.00m	1	12.50	0.60	0.50	3.75	
	Ch: 451.00m to 466.40m	1	15.40	0.60	0.55	5.08	
	Ch: 466.40m to 473.50m Rd Gap		7.10				
	Ch: 473.50m to 486.80m	1	13.30	0.60	0.60	4.79	
	Ch: 486.80m to 492.60m	1	5.80	0.60	0.55	1.91	
	Ch: 492.60m to 496.30m	1	3.70	0.60	0.45	1.00	
	Ch: 496.30m to 501.40m Gap		5.10				
	Ch: 501.40m to 508.20m Rd Gap		6.80				
	Ch: 508.20m to 538.20m	1	30.00	0.60	0.55	9.90	
	Ch: 538.20m to 568.20m	1	30.00	0.60	0.50	9.00	
	Ch: 568.20m to 591.10m	1	22.90	0.60	0.50	6.87	
	Ch: 591.10m to 598.10m Gap		7.00				
	Ch: 598.10m to 606.10m	1	8.00	0.60	0.45	2.16	
	LHS						
	Ch: 0.00m to 30.00m	1	30.00	0.60	0.55	9.90	
	Ch: 30.00m to 60.00m	1	30.00	0.60	0.50	9.00	
	Ch: 60.00m to 90.00m	1	30.00	0.60	0.45	8.10	
	Ch: 90.00m to 99.00m	1	9.00	0.60	0.50	2.70	
	Ch: 99.00m to 104.50m Rd Gap		5.50				
	Ch: 104.50m to 134.50m	1	30.00	0.60	0.55	9.90	
	Ch: 134.50m to 149.00m	1	14.50	0.60	0.50	4.35	
	Ch: 149.00m to 155.80m Culvert		6.80				
	Ch: 155.80m to 174.70m	1	18.90	0.60	0.55	6.24	
	Ch: 174.70m to 181.40m	1	6.70	0.60	0.50	2.01	
	Ch: 181.40m to 188.10m Culvert		6.70				
	Ch: 188.10m to 204.40m	1	16.30	0.60	0.50	4.89	
	Ch: 204.40m to 220.80m	1	16.40	0.60	0.55	5.41	
	Ch:220.80m to 227.30m Culvert		6.50				

Contractor

Asst.Engineer

Asst.Exec.Engineer

Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	Ch: 227.30m to 257.30m	1	30.00	0.60	0.60	10.80	
	Ch: 257.30m to 259.50m	1	2.20	0.60	0.55	0.73	
	Ch: 259.50m to 266.50m Rd Gap		7.00				
	Ch: 266.50m to 296.50m	1	30.00	0.60	0.45	8.10	
	Ch: 296.50m to 297.50m	1	1.00	0.60	0.55	0.33	
	Ch:297.50m to 304.10m Rd Gap		6.60				
	Ch: 304.10m to 333.10m Gap		29.00				
	Ch: 333.10m to 345.40m	1	12.30	0.60	0.50	3.69	
	Ch: 345.40m to 352.20m Culvert		6.80				
	Ch: 352.20m to 377.80m	1	25.60	0.60	0.60	9.22	
	Ch: 377.80m to 384.90m Culvert		7.10				
	Ch: 384.90m to 410.30m	1	25.40	0.60	0.55	8.38	
	Ch: 410.30m to 416.80m Culvert		6.50				
	Ch: 416.80m to 443.40m	1	26.60	0.60	0.50	7.98	
	Ch: 443.40m to 450.10m Culvert		6.70				
	Ch: 450.10m to 476.90m	1	26.80	0.60	0.45	7.24	
	Ch: 476.90m to 483.90m Culvert		7.00				
	Ch: 483.90m to 513.90m	1	30.00	0.60	0.50	9.00	
	Ch: 513.90m to 543.90m	1	30.00	0.60	0.55	9.90	
	Ch: 543.90m to 573.90m	1	30.00	0.60	0.60	10.80	
	Ch: 573.90m to 603.90m	1	30.00	0.60	0.50	9.00	
	Culverts						
		1	6.00	1.00	0.30	1.80	
		1	6.10	1.00	0.35	2.14	
		1	7.20	1.20	0.40	3.46	
		1	6.80	1.20	0.35	2.86	
		1	6.70	1.20	0.30	2.41	
		1	6.50	0.90	0.35	2.05	
		1	6.80	0.90	0.40	2.45	
		1	7.10	1.00	0.35	2.49	
		1	6.50	1.00	0.40	2.60	
		1	6.70	1.00	0.30	2.01	
		1	7.00	1.00	0.35	2.45	
	Burm Cutting						
	Nanjappa Layout 1st From Ramchandrapura Main To Vidyaranyapua Main Rd						
	From Ramchandrapura Main To Vidyaranyapua Main Rd						
	Ch:0.00m to 30.00m	2	30.00	0.60	0.25	9.00	
	Ch:30.00m to 60.00m	2	30.00	0.75	0.30	13.50	
	Ch:60.00m to 90.00m	2	30.00	0.60	0.35	12.60	
	Ch:90.00m to 120.00m	2	30.00	0.55	0.20	6.60	
	Ch:120.00m to 150.00m	2	30.00	0.50	0.35	10.50	
	Ch:150.00m to 180.00m	2	30.00	0.45	0.30	8.10	
	Ch:180.00m to 210.00m	2	30.00	0.60	0.25	9.00	

Contractor

Asst.Engineer

Asst.Exec.Engineer

Assistant Executive Engg
Vidyaranyapura Sub Div
B.B.M.P, Bangalore

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	Ch:210.00m to 240.00m	2	30.00	0.75	0.20	9.00	
	Ch:240.00m to 270.00m	2	30.00	0.60	0.35	12.60	
	Ch:270.00m to 300.00m	2	30.00	0.45	0.20	5.40	
	Ch:300.00m to 330.00m	2	30.00	0.60	0.25	9.00	
	Ch:330.00m to 360.00m	2	30.00	0.55	0.30	9.90	
	Ch:360.00m to 390.00m	2	30.00	0.50	0.25	7.50	
	Ch:390.00m to 420.00m	2	30.00	0.65	0.20	7.80	
	Ch:420.00m to 450.00m	2	30.00	0.70	0.35	14.70	
	Ch:450.00m to 480.00m	2	30.00	0.55	0.20	6.60	
	Ch:480.00m to 510.00m	2	30.00	0.50	0.25	7.50	
	Ch:510.00m to 540.00m	2	30.00	0.60	0.30	10.80	
	Ch:540.00m to 570.00m	2	30.00	0.55	0.25	8.25	
	Ch:570.00m to 600.00m	2	30.00	0.50	0.30	9.00	
	Ch:600.00m to 605.00m	2	5.00	0.60	0.25	1.50	
	8th Cross Rd						
	Ch: 0.00m to 30.00m	2	30.00	0.60	0.25	9.00	
	Ch: 30.00m to 60.00m	2	30.00	0.75	0.30	13.50	
	Ch: 60.00m to 90.00m	2	30.00	0.60	0.35	12.60	
	Ch: 90.00m to 119.40m	2	29.40	0.55	0.20	6.47	
					Total Qty	**568.28**	**Cum**
					Upto 125%	**496.69**	**Sqm**
					Above 125%	**71.60**	**Sqm**

Contractor

Asst.Engineer

Asst.Exec.Engineer

Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

Name of Work:Improvements to Roads and Drains at Nanjappa Layout Main Road, Cross Roads, Rammanna Garden and Surrounduing araes in Ward No.14 (Vidyaranyapura)

Detailed Measurements

Date of Measurements

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
7	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. M20 (The cost of steel reinforcement & formwork to be paid separately)						
	Drain Coping						
	Nanjappa Layout 1st From Ramchandrapura Main To Vidyaranyapua Main Rd						
	From Ramchandrapura Main To Vidyaranyapua Main Rd						
	RHS						
	Ch: 0.00m to 7.30m	2	7.30	0.15	0.10	0.22	
	Ch: 7.30m to 18.40m	2	11.10	0.15	0.10	0.33	
	Ch: 18.40m to 21.30m	2	2.90	0.15	0.10	0.09	
	Ch: 21.30m to 29.30m	2	8.00	0.15	0.10	0.24	
	Ch:29.30m to 35.60m Rd Gap		6.30				
	Ch: 35.60m to 49.30m		13.70				
	Ch: 49.30m to 53.30m		4.00				
	Ch: 53.30m to 62.50m	2	9.20	0.15	0.10	0.28	
	Ch: 62.50m to 69.20m Rd Gap		6.70				
	Ch: 69.20m to 79.10m	2	9.90	0.15	0.10	0.30	
	Ch: 79.10m to 89.20m	2	10.10	0.15	0.10	0.30	
	Ch: 89.20m to 95.20m	2	6.00	0.15	0.10	0.18	
	Ch: 95.20m to 101.20m Culvert		6.00				
	Ch: 101.20m to 108.40m		7.20				
	Ch: 108.40m to 117.80m		9.40				
	Ch: 117.80m to 121.90m		4.10				
	Ch: 121.90m to 128.00m Culvert		6.10				
	Ch: 128.00m to 153.70m	2	25.70	0.15	0.10	0.77	
	Ch: 153.70m to 160.10m Rd Gap		6.40				
	Ch: 160.10m to 174.10m	2	14.00	0.15	0.10	0.42	
	Ch: 174.10m to 185.90m	2	11.80	0.15	0.10	0.35	
	Ch: 185.90m to 193.70m Rd Gap		7.80				

Contractor

Asst.Engineer

Asst.Exec.Engineer

Assistant Executive Engin
Vidyaranyapura Sub Divisi
B.B.M.P, Bangalore - 97

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	Ch: 193.70m to 211.10m	2	17.40	0.15	0.10	0.52	
	Ch: 211.10m to 218.50m	2	7.40	0.15	0.10	0.22	
	Ch: 218.50m to 224.70m Rd Gap		6.20				
	Ch: 224.70m to 232.50m	2	7.80	0.15	0.10	0.23	
	Ch: 232.50m to 250.50m	2	18.00	0.15	0.10	0.54	
	Ch: 250.50m to 257.00m Rd Gap		6.50				
	Ch: 257.00m to 283.00m	2	26.00	0.15	0.10	0.78	
	Ch: 283.00m to 289.80m Rd Gap		6.80				
	Ch: 289.80m to 299.80m	2	10.00	0.15	0.10	0.30	
	Ch: 299.80m to 324.50m	2	24.70	0.15	0.10	0.74	
	Ch: 324.50m to 336.40m	2	11.90	0.15	0.10	0.36	
	Ch: 336.40m to 361.00m	2	24.60	0.15	0.10	0.74	
	Ch: 361.00m to 373.70m Gap		12.70				
	Ch: 373.70m to 393.80m	2	20.10	0.15	0.10	0.60	
	Ch: 393.80m to 410.40m Gap		16.60				
	Ch: 410.40m to 431.30m	2	20.90	0.15	0.10	0.63	
	Ch: 431.30m to 438.50m Culvert		7.20				
	Ch: 438.50m to 451.00m	2	12.50	0.15	0.10	0.38	
	Ch: 451.00m to 466.40m	2	15.40	0.15	0.10	0.46	
	Ch: 466.40m to 473.50m Rd Gap		7.10				
	Ch: 473.50m to 486.80m	2	13.30	0.15	0.10	0.40	
	Ch: 486.80m to 492.60m	2	5.80	0.15	0.10	0.17	
	Ch: 492.60m to 496.30m	2	3.70	0.15	0.10	0.11	
	Ch: 496.30m to 501.40m Gap		5.10				
	Ch: 501.40m to 508.20m Rd Gap		6.80				
	Ch: 508.20m to 538.20m	2	30.00	0.15	0.10	0.90	
	Ch: 538.20m to 568.20m	2	30.00	0.15	0.10	0.90	
	Ch: 568.20m to 591.10m	2	22.90	0.15	0.10	0.69	
	Ch: 591.10m to 598.10m Gap		7.00				
	Ch: 598.10m to 606.10m	2	8.00	0.15	0.10	0.24	
	LHS						
	Ch: 0.00m to 30.00m	2	30.00	0.15	0.10	0.90	
	Ch: 30.00m to 60.00m	2	30.00	0.15	0.10	0.90	
	Ch: 60.00m to 90.00m	2	30.00	0.15	0.10	0.90	
	Ch: 90.00m to 99.00m	2	9.00	0.15	0.10	0.27	
	Ch: 99.00m to 104.50m Rd Gap		5.50				
	Ch: 104.50m to 134.50m	2	30.00	0.15	0.10	0.90	
	Ch: 134.50m to 149.00m	2	14.50	0.15	0.10	0.44	
	Ch: 149.00m to 155.80m Culvert		6.80				
	Ch: 155.80m to 174.70m	2	18.90	0.15	0.10	0.57	
	Ch: 174.70m to 181.40m	2	6.70	0.15	0.10	0.20	
	Ch: 181.40m to 188.10m Culvert		6.70				
	Ch: 188.10m to 204.40m	2	16.30	0.15	0.10	0.49	

Contractor

Asst.Engineer

Asst.Exec.Engineer

Assistant Executive Engine
Vidyaranyapura Sub Divisi
B.B.M.P, Bangalore - 97

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	Ch: 204.40m to 220.80m	2	16.40	0.15	0.10	0.49	
	Ch:220.80m to 227.30m Culvert		6.50				
	Ch: 227.30m to 257.30m	2	30.00	0.15	0.10	0.90	
	Ch: 257.30m to 259.50m	2	2.20	0.15	0.10	0.07	
	Ch: 259.50m to 266.50m Rd Gap		7.00				
	Ch: 266.50m to 296.50m	2	30.00	0.15	0.10	0.90	
	Ch: 296.50m to 297.50m	2	1.00	0.15	0.10	0.03	
					Total Qty	**21.34**	**Cum**

Contractor

Asst.Engineer

Asst.Exec.Engineer

Assistant Executive Engineer
Vidyaranyapura Sub Divis
B.B.M.P, Bangalore - 97

Name of Work:Improvements to Roads and Drains at Nanjappa Layout Main Road, Cross Roads, Rammanna Garden and Surrounduing araes in Ward No.14 (Vidyaranyapura)

Detailed Measurements

Date of Measurements

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
11	Earth work in surface Excavation by mechanical means for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work. In all kinds of soils upto 300 mm depth						
	Asphalt Road						
	Nanjappa Layout 1st From Ramchandrapura Main To Vidyaranyapua Main Rd						
	From Ramchandrapura Main To Vidyaranyapua Main Rd						
	Ch:0.00m to 30.00m	1	30.00	(1.60 + 1.40)/2	0.25	11.25	
	Ch:30.00m to 60.00m	1	30.00	(1.40 + 1.30)/2	0.25	10.13	
	Ch:60.00m to 90.00m	1	30.00	(1.20 + 1.10)/2	0.25	8.63	
	Ch:90.00m to 120.00m	1	30.00	(1.10 + 1.00)/2	0.25	7.88	
	Ch:120.00m to 150.00m	1	30.00	(1.10 + 0.90)/2	0.25	7.50	
	Ch:150.00m to 180.00m	1	30.00	(0.90 + 1.10)/2	0.25	7.50	
	Ch:180.00m to 210.00m	1	30.00	(1.10 + 0.90)/2	0.25	7.50	
	Ch:210.00m to 240.00m	1	30.00	(0.90 + 0.80)/2	0.25	6.38	
	Ch:240.00m to 270.00m	1	30.00	(0.80 + 0.90)/2	0.25	6.38	
	Ch:270.00m to 300.00m	1	30.00	(1.10 + 1.20)/2	0.25	8.63	
	Ch:300.00m to 330.00m	1	30.00	(1.20 + 1.00)/2	0.25	8.25	
	Ch:330.00m to 360.00m	1	30.00	(1.00 + 1.30)/2	0.25	8.63	

Contractor

Asst.Engineer

Asst.Exec.Engineer

Assistant Executive Engineer
Vidyaranyapura Sub Divn
B.B.M.P, Bangalore - 97

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	Ch:360.00m to 390.00m	1	30.00	(1.30 + 1.25)/2	0.25	9.56	
	Ch:390.00m to 420.00m	1	30.00	(1.10 + 1.20)/2	0.25	8.63	
	Ch:420.00m to 450.00m	1	30.00	(1.20 + 1.00)/2	0.25	8.25	
	Ch:450.00m to 480.00m	1	30.00	(1.10 + 1.30)/2	0.25	9.00	
	Ch:480.00m to 510.00m	1	30.00	(1.30 + 1.10)/2	0.25	9.00	
	Ch:510.00m to 540.00m	1	30.00	(1.10 + 1.30)/2	0.25	9.00	
	Ch:540.00m to 570.00m	1	30.00	(1.30 + 1.20)/2	0.25	9.38	
	Ch:570.00m to 600.00m	1	30.00	(1.20 + 1.40)/2	0.25	9.75	
	Ch:600.00m to 605.00m	1	5.00	(1.40 + 1.25)/2	0.25	1.66	
	8th Cross Rd						
	Ch: 0.00m to 30.00m	1	30.00	(1.20 + 1.10)/2	0.25	8.63	
	Ch: 30.00m to 60.00m	1	30.00	(1.10 + 1.30)/2	0.25	9.00	
	Ch: 60.00m to 90.00m	1	30.00	(1.30 + 1.00)/2	0.25	8.63	
	Ch: 90.00m to 119.40m	1	29.40	(1.00 + 1.00)/2	0.25	7.35	
	Profile Corrcrtion						
		1	2.20	3.20	0.25	1.76	
		1	5.20	4.30	0.25	5.59	
		1	2.30	4.30	0.25	2.47	
		1	4.20	2.30	0.25	2.42	
		1	5.30	3.50	0.25	4.64	
		1	4.60	4.10	0.25	4.72	
		1	5.20	3.30	0.25	4.29	
		1	2.50	4.20	0.25	2.63	
		1	5.20	4.30	0.25	5.59	
		1	5.30	3.50	0.25	4.64	
		1	4.30	4.20	0.25	4.52	
		1	5.10	3.30	0.25	4.21	
		1	4.30	4.10	0.25	4.41	
		1	4.70	2.50	0.25	2.94	
		1	5.20	3.20	0.25	4.16	

Contractor

Asst.Engineer

Asst.Exec.Engineer

Assistant Executive Engr
Vidyaranyapura Sub Divi
B.B.M.P, Bangalore - 9

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
		1	5.10	4.10	0.25	5.23	
		1	3.70	3.55	0.25	3.28	
		1	4.30	4.30	0.25	4.62	
		1	2.50	3.60	0.25	2.25	
		1	5.30	4.10	0.25	5.43	
		1	4.20	3.50	0.25	3.68	
		1	3.40	2.30	0.25	1.96	
		1	5.30	3.20	0.25	4.24	
					Total Qty	**296.09**	**Cum**
					Upto 125%	**284.38**	**Cum**
					Above 125%	**11.72**	**Cum**

Contractor

Asst.Engineer

Asst.Exec.Engineer

Assistant Executive Engi
Vidyaranyapura Sub Divi
B.B.M.P, Bangalore -

Name of Work:Improvements to Roads and Drains at Nanjappa Layout Main Road, Cross Roads, Rammanna Garden and Surrounduing araes in Ward No.14 (Vidyaranyapura)

Detailed Measurements

Date of Measurements

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
12	Providing, laying, spreading and compacting graded stone aggregate to Wet Mix Macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver/grader in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density						
	Asphalt Road						
	Nanjappa Layout 1st From Ramchandrapura Main To Vidyaranyapua Main Rd						
	From Ramchandrapura Main To Vidyaranyapua Main Rd						
	Ch:0.00m to 30.00m	1	30.00	(1.60 + 1.40)/2	0.25	11.25	
	Ch:30.00m to 60.00m	1	30.00	(1.40 + 1.30)/2	0.25	10.13	
	Ch:60.00m to 90.00m	1	30.00	(1.20 + 1.10)/2	0.25	8.63	
	Ch:90.00m to 120.00m	1	30.00	(1.10 + 1.00)/2	0.25	7.88	
	Ch:120.00m to 150.00m	1	30.00	(1.10 + 0.90)/2	0.25	7.50	
	Ch:150.00m to 180.00m	1	30.00	(0.90 + 1.10)/2	0.25	7.50	
	Ch:180.00m to 210.00m	1	30.00	(1.10 + 0.90)/2	0.25	7.50	
	Ch:210.00m to 240.00m	1	30.00	(0.90 + 0.80)/2	0.25	6.38	
	Ch:240.00m to 270.00m	1	30.00	(0.80 + 0.90)/2	0.25	6.38	
	Ch:270.00m to 300.00m	1	30.00	(1.10 + 1.20)/2	0.25	8.63	
	Ch:300.00m to 330.00m	1	30.00	(1.20 + 1.00)/2	0.25	8.25	
	Ch:330.00m to 360.00m	1	30.00	(1.00 + 1.30)/2	0.25	8.63	
	Ch:360.00m to 390.00m	1	30.00	(1.30 + 1.25)/2	0.25	9.56	
	Ch:390.00m to 420.00m	1	30.00	(1.10 + 1.20)/2	0.25	8.63	

Contractor

Asst.Engineer

Asst.Exec.Engineer

Assistant Executive Engin
Vidyaranyapura Sub Divis
B.B.M.P, Bangalore - 97

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	Ch:420.00m to 450.00m	1	30.00	(1.20 + 1.00)/2	0.25	8.25	
	Ch:450.00m to 480.00m	1	30.00	(1.10 + 1.30)/2	0.25	9.00	
	Ch:480.00m to 510.00m	1	30.00	(1.30 + 1.10)/2	0.25	9.00	
	Ch:510.00m to 540.00m	1	30.00	(1.10 + 1.30)/2	0.25	9.00	
	Ch:540.00m to 570.00m	1	30.00	(1.30 + 1.20)/2	0.25	9.38	
	Ch:570.00m to 600.00m	1	30.00	(1.20 + 1.40)/2	0.25	9.75	
	Ch:600.00m to 605.00m	1	5.00	(1.40 + 1.25)/2	0.25	1.66	
	8th Cross Rd						
	Ch: 0.00m to 30.00m	1	30.00	(1.20 + 1.10)/2	0.25	8.63	
	Ch: 30.00m to 60.00m	1	30.00	(1.10 + 1.30)/2	0.25	9.00	
	Ch: 60.00m to 90.00m	1	30.00	(1.30 + 1.00)/2	0.25	8.63	
	Ch: 90.00m to 119.40m	1	29.40	(1.00 + 1.00)/2	0.25	7.35	
	Profile Corrcrtion						
		1	2.20	3.20	0.25	1.76	
		1	5.20	4.30	0.25	5.59	
		1	2.30	4.30	0.25	2.47	
		1	4.20	2.30	0.25	2.42	
		1	5.30	3.50	0.25	4.64	
		1	4.60	4.10	0.25	4.72	
		1	5.20	3.30	0.25	4.29	
		1	2.50	4.20	0.25	2.63	
		1	5.20	4.30	0.25	5.59	
		1	5.30	3.50	0.25	4.64	
		1	4.30	4.20	0.25	4.52	
		1	5.10	3.30	0.25	4.21	
		1	4.30	4.10	0.25	4.41	
		1	4.70	2.50	0.25	2.94	
		1	5.20	3.20	0.25	4.16	
		1	5.10	4.10	0.25	5.23	
		1	3.70	3.55	0.25	3.28	
		1	4.30	4.30	0.25	4.62	
		1	2.50	3.60	0.25	2.25	

Contractor

Asst.Engineer

Asst.Exec.Engineer

Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
		1	5.30	4.10	0.25	5.43	
		1	4.20	3.50	0.25	3.68	
		1	3.40	2.30	0.25	1.96	
		1	5.30	3.20	0.25	4.24	
					Total Qty	**296.09**	**Sqm**

Contractor

Asst.Engineer

Asst.Exec.Engineer

Assistant Executive Engineer
Vidyaranyapura Sub Division
B,B.M.P, Bangalore - 97

Name of Work:Improvements to Roads and Drains at Nanjappa Layout Main Road, Cross Roads, Rammanna Garden and Surrounduing araes in Ward No.14 (Vidyaranyapura)

Detailed Measurements

Date of Measurements

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
13	Providing and applying Primer Coat with SS1 grade Bitumen Emulsion on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.90 kg per m2 using mechanical						
	Asphalt Road						
	Nanjappa Layout 1st From Ramchandrapura Main To Vidyaranyapua Main Rd						
	From Ramchandrapura Main To Vidyaranyapua Main Rd						
	Ch:0.00m to 30.00m	1	30.00	(1.60 + 1.40)/2		45.00	
	Ch:30.00m to 60.00m	1	30.00	(1.40 + 1.30)/2		40.50	
	Ch:60.00m to 90.00m	1	30.00	(1.20 + 1.10)/2		34.50	
	Ch:90.00m to 120.00m	1	30.00	(1.10 + 1.00)/2		31.50	
	Ch:120.00m to 150.00m	1	30.00	(1.10 + 0.90)/2		30.00	
	Ch:150.00m to 180.00m	1	30.00	(0.90 + 1.10)/2		30.00	
	Ch:180.00m to 210.00m	1	30.00	(1.10 + 0.90)/2		30.00	
	Ch:210.00m to 240.00m	1	30.00	(0.90 + 0.80)/2		25.50	
	Ch:240.00m to 270.00m	1	30.00	(0.80 + 0.90)/2		25.50	
	Ch:270.00m to 300.00m	1	30.00	(1.10 + 1.20)/2		34.50	
	Ch:300.00m to 330.00m	1	30.00	(1.20 + 1.00)/2		33.00	
	Ch:330.00m to 360.00m	1	30.00	(1.00 + 1.30)/2		34.50	
	Ch:360.00m to 390.00m	1	30.00	(1.30 + 1.25)/2		38.25	
	Ch:390.00m to 420.00m	1	30.00	(1.10 + 1.20)/2		34.50	
	Ch:420.00m to 450.00m	1	30.00	(1.20 + 1.00)/2		33.00	

Contractor

Asst.Engineer

Asst.Exec.Engineer

Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	Ch:450.00m to 480.00m	1	30.00	(1.10 + 1.30) / 2		36.00	
	Ch:480.00m to 510.00m	1	30.00	(1.30 + 1.10) / 2		36.00	
	Ch:510.00m to 540.00m	1	30.00	(1.10 + 1.30) / 2		36.00	
	Ch:540.00m to 570.00m	1	30.00	(1.30 + 1.20) / 2		37.50	
	Ch:570.00m to 600.00m	1	30.00	(1.20 + 1.40) / 2		39.00	
	Ch:600.00m to 605.00m	1	5.00	(1.40 + 1.25) / 2		6.63	
	8th Cross Rd						
	Ch: 0.00m to 30.00m	1	30.00	(1.20 + 1.10) / 2		34.50	
	Ch: 30.00m to 60.00m	1	30.00	(1.10 + 1.30) / 2		36.00	
	Ch: 60.00m to 90.00m	1	30.00	(1.30 + 1.00) / 2		34.50	
	Ch: 90.00m to 119.40m	1	29.40	(1.00 + 1.00) / 2		29.40	
	Profile Corrcrtion						
		1	2.20	3.20		7.04	
		1	5.20	4.30		22.36	
		1	2.30	4.30		9.89	
		1	4.20	2.30		9.66	
		1	5.30	3.50		18.55	
		1	4.60	4.10		18.86	
		1	5.20	3.30		17.16	
		1	2.50	4.20		10.50	
		1	5.20	4.30		22.36	
		1	5.30	3.50		18.55	
		1	4.30	4.20		18.06	
		1	5.10	3.30		16.83	
		1	4.30	4.10		17.63	
		1	4.70	2.50		11.75	
		1	5.20	3.20		16.64	
		1	5.10	4.10		20.91	
		1	3.70	3.55		13.14	
		1	4.30	4.30		18.49	
		1	2.50	3.60		9.00	
		1	5.30	4.10		21.73	
		1	4.20	3.50		14.70	

Contractor

Asst.Engineer

Asst.Exec.Engineer

Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
		1	3.40	2.30		7.82	
		1	5.30	3.20		16.96	
					Total Qty	**1184.36**	**Sqm**

Contractor

Asst.Engineer

Asst.Exec.Engineer

Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

Name of Work:Improvements to Roads and Drains at Nanjappa Layout Main Road, Cross Roads, Rammanna Garden and Surrounduing araes in Ward No.14 (Vidyaranyapura)

Detailed Measurements

Date of Measurements

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
14	Providing and laying Dense Graded Bituminous Macadam with 40/60 TPH capacity HMP using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 4.5 per cent by weight of total mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRTH specification						
	Asphalt Road						
	Nanjappa Layout 1st From Ramchandrapura Main To Vidyaranyapua Main Rd						
	From Ramchandrapura Main To Vidyaranyapua Main Rd						
	Ch:0.00m to 30.00m	1	30.00	(1.60 + 1.40)/2	0.05	2.25	
	Ch:30.00m to 60.00m	1	30.00	(1.40 + 1.30)/2	0.05	2.03	
	Ch:60.00m to 90.00m	1	30.00	(5.70 + 5.10)/2	0.05	8.10	
	Ch:90.00m to 120.00m	1	30.00	(5.10 + 4.90)/2	0.05	7.50	
	Ch:120.00m to 150.00m	1	30.00	(1.10 + 0.90)/2	0.05	1.50	
	Ch:150.00m to 180.00m	1	30.00	(0.90 + 1.10)/2	0.05	1.50	
	Ch:180.00m to 210.00m	1	30.00	(1.10 + 0.90)/2	0.05	1.50	
	Ch:210.00m to 240.00m	1	30.00	(0.90 + 0.80)/2	0.05	1.28	
	Ch:240.00m to 270.00m	1	30.00	(0.80 + 0.90)/2	0.05	1.28	
	Ch:270.00m to 300.00m	1	30.00	(4.90 + 5.20)/2	0.05	7.58	
	Ch:300.00m to 330.00m	1	30.00	(5.20 + 4.70)/2	0.05	7.43	
	Ch:330.00m to 360.00m	1	30.00	(4.70 + 5.10)/2	0.05	7.35	
	Ch:360.00m to 390.00m	1	30.00	(5.10 + 4.60)/2	0.05	7.28	

Contractor

Asst.Engineer

Asst.Exec.Engineer

Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	Ch:390.00m to 420.00m	1	30.00	(4.60 + 4.65)/2	0.05	6.94	
	Ch:420.00m to 450.00m	1	30.00	(4.65 + 5.30)/2	0.05	7.46	
	Ch:450.00m to 480.00m	1	30.00	(1.10 + 1.30)/2	0.05	1.80	
	Ch:480.00m to 510.00m	1	30.00	(1.30 + 1.10)/2	0.05	1.80	
	Ch:510.00m to 540.00m	1	30.00	(1.10 + 1.30)/2	0.05	1.80	
	Ch:540.00m to 570.00m	1	30.00	(1.30 + 1.20)/2	0.05	1.88	
	Ch:570.00m to 600.00m	1	30.00	(1.20 + 1.40)/2	0.05	1.95	
	Ch:600.00m to 605.00m	1	5.00	(1.40 + 1.25)/2	0.05	0.33	
	8th Cross Rd						
	Ch: 0.00m to 30.00m	1	30.00	(1.20 + 1.10)/2	0.05	1.73	
	Ch: 30.00m to 60.00m	1	30.00	(1.10 + 1.30)/2	0.05	1.80	
	Ch: 60.00m to 90.00m	1	30.00	(1.30 + 1.00)/2	0.05	1.73	
	Ch: 90.00m to 119.40m	1	29.40	(1.00 + 1.00)/2	0.05	1.47	
	Profile Corrcrtion						
		1	2.20	3.20	0.05	0.35	
		1	5.20	4.30	0.05	1.12	
		1	2.30	4.30	0.05	0.49	
		1	4.20	2.30	0.05	0.48	
		1	5.30	3.50	0.05	0.93	
		1	4.60	4.10	0.05	0.94	
		1	5.20	3.30	0.05	0.86	
		1	2.50	4.20	0.05	0.53	
		1	5.20	4.30	0.05	1.12	
		1	5.30	3.50	0.05	0.93	
		1	4.30	4.20	0.05	0.90	
		1	5.10	3.30	0.05	0.84	
		1	4.30	4.10	0.05	0.88	
		1	4.70	2.50	0.05	0.59	
		1	5.20	3.20	0.05	0.83	
		1	5.10	4.10	0.05	1.05	
		1	3.70	3.55	0.05	0.66	

Contractor

Asst.Engineer

Asst.Exec.Engineer

Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
		1	4.30	4.30	0.05	0.92	
		1	2.50	3.60	0.05	0.45	
		1	5.30	4.10	0.05	1.09	
		1	4.20	3.50	0.05	0.74	
		1	3.40	2.30	0.05	0.39	
		1	5.30	3.20	0.05	0.85	
					Total Qty	**105.16**	**Cum**
					Upto 125%	**71.10**	**Cum**
					Above 125%	**34.06**	**Cum**

Contractor

Asst.Engineer

Asst.Exec.Engineer

Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

Name of Work:Improvements to Roads and Drains at Nanjappa Layout Main Road, Cross Roads, Rammanna Garden and Surrounduing araes in Ward No.14 (Vidyaranyapura)

Detailed Measurements

Date of Measurements

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
15	Providing and applying Tack Coat with RS1 Bituminous Emulsion using emulsion pressure distributor at the rate of 0.25 kg/m2 on the prepared bituminous surface cleaned with mechanical broom						
	For BC						
	Asphalt Road						
	Nanjappa Layout 1st From Ramchandrapura Main To Vidyaranyapua Main Rd						
	From Ramchandrapura Main To Vidyaranyapua Main Rd						
	Ch:0.00m to 30.00m	1	30.00	(6.00 + 6.45) / 2		186.75	
	Ch:30.00m to 60.00m	1	30.00	(6.45 + 5.70) / 2		182.25	
	Ch:60.00m to 90.00m	1	30.00	(5.70 + 5.10) / 2		162.00	
	Ch:90.00m to 120.00m	1	30.00	(5.10 + 5.00) / 2		151.50	
	Ch:120.00m to 150.00m	1	30.00	(5.00 + 5.05) / 2		150.75	
	Ch:150.00m to 180.00m	1	30.00	(5.05 + 4.70) / 2		146.25	
	Ch:180.00m to 210.00m	1	30.00	(4.70 + 4.90) / 2		144.00	
	Ch:210.00m to 240.00m	1	30.00	(4.90 + 4.60) / 2		142.50	
	Ch:240.00m to 270.00m	1	30.00	(4.60 + 4.90) / 2		142.50	
	Ch:270.00m to 300.00m	1	30.00	(4.90 + 5.20) / 2		151.50	
	Ch:300.00m to 330.00m	1	30.00	(5.20 + 4.90) / 2		151.50	
	Ch:330.00m to 360.00m	1	30.00	(4.90 + 5.10) / 2		150.00	
	Ch:360.00m to 390.00m	1	30.00	(5.10 + 4.65) / 2		146.25	
	Ch:390.00m to 420.00m	1	30.00	(4.65 + 5.15) / 2		147.00	

Contractor

Asst.Engineer

Asst.Exec.Engineer

Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	Ch:420.00m to 450.00m	1	30.00	(5.15 + 5.40) / 2		158.25	
	Ch:450.00m to 480.00m	1	30.00	(5.40 + 5.70) / 2		166.50	
	Ch:480.00m to 510.00m	1	30.00	(5.70 + 5.00) / 2		160.50	
	Ch:510.00m to 540.00m	1	30.00	(5.00 + 5.25) / 2		153.75	
	Ch:540.00m to 570.00m	1	30.00	(5.25 + 5.40) / 2		159.75	
	Ch:570.00m to 600.00m	1	30.00	(5.40 + 5.60) / 2		165.00	
	Ch:600.00m to 605.00m	1	5.00	(5.60 + 5.50) / 2		27.75	
	8th Cross Rd						
	Ch: 0.00m to 30.00m	1	30.00	(5.00 + 4.80) / 2		147.00	
	Ch: 30.00m to 60.00m	1	30.00	(4.80 + 5.30) / 2		151.50	
	Ch: 60.00m to 90.00m	1	30.00	(5.30 + 4.90) / 2		153.00	
	Ch: 90.00m to 119.40m	1	29.40	(4.90 + 4.50) / 2		138.18	
					Total Qty	**3735.93**	**Sqm**

Contractor

Asst.Engineer

Asst.Exec.Engineer

Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

Name of Work:Improvements to Roads and Drains at Nanjappa Layout Main Road, Cross Roads, Rammanna Garden and Surrounduing araes in Ward No.14 (Vidyaranyapura)

Detailed Measurements

Date of Measurements

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
18	Loading and Unloading of Stone Boulder / Stone aggregates / Sand / Kankar / Moorum. (Tipper 14 m3)						
	From Item No-02					568.28	
	From Item No-11					296.09	
					Total Qty	**864.37**	**Cum**
					Upto 125%	**710.76**	**Cum**
					Above 125%	**153.61**	**Cum**

Contractor

Asst.Engineer

Asst.Exec.Engineer

Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

Name of Work:Improvements to Roads and Drains at Nanjappa Layout Main Road, Cross Roads, Rammanna Garden and Surrounduing araes in Ward No.14 (Vidyaranyapura)

Detailed Measurements

Date of Measurements

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
19	Cost of Haulage Excluding Loading and Unloading Taking output 18 t load and lead 10 km = 180 t.km						
	From Item No-18	1	864.37	1.28		1106.40	
					Total Qty	**1106.40**	**T.Km**
					Upto 125%	**909.78**	**T.Km**
					Above 125%	**196.62**	**T.Km**

Contractor

Asst.Engineer

Asst.Exec.Engineer

Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

Name of Work:Improvements to Roads and Drains at Nanjappa Layout Main Road, Cross Roads, Rammanna Garden and Surrounduing araes in Ward No.14 (Vidyaranyapura)

MEASUREMENT SHEETS

"FIRST AND FINAL BILL"

Name of Work:Improvements to Roads and Drains at Nanjappa Layout Main Road, Cross Roads, Rammanna Garden and Surrounduing araes in Ward No.14 (Vidyaranyapura)									
Detailed Measurements									
Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
1	Removing and resetting of footpath slab								
	Vide Premeasurement page no.					952.83			
					Present Qty	**952.83**	**Cum**	**246.63**	**234996.46**
2	Earth work Excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as								
	Vide Premeasurement page no.					568.28			
					Present Qty	**568.28**	**Cum**	**214.73**	**122027.52**
7	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from								
	Vide Premeasurement page no.					21.34			
					Present Qty	**21.34**	**Cum**	**7234.25**	**154393.36**
Date of Measurements									
9	Providing and Fixing pre cast Covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting, including form work,curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc, copmplete								
	Nanjappa Layout 1st From Ramchandrapura Main To Vidyaranyapua Main Rd								
	From Ramchandrapura Main To Vidyaranyapua Main Rd								
	RHS								
	Ch: 0.00m to 7.30m	1	7.30	0.90		6.57			
	Ch: 7.30m to 18.40m	1	11.10	0.90		9.99			
	Ch: 18.40m to 21.30m		2.90						
	Ch: 21.30m to 29.30m	1	8.00	0.90		7.20			
	Ch:29.30m to 35.60m Rd Gap		6.30						
	Ch: 35.60m to 49.30m		13.70						
	Ch: 49.30m to 53.30m	1	4.00	0.90		3.60			
	Ch: 53.30m to 62.50m		9.20						
	Ch: 62.50m to 69.20m Rd Gap		6.70						
	Ch: 69.20m to 79.10m	1	9.90	0.90		8.91			
	Ch: 79.10m to 89.20m	1	10.10	0.90		9.09			
	Ch: 89.20m to 95.20m		6.00						
	Ch: 95.20m to 101.20m Culvert		6.00						
	Ch: 101.20m to 108.40m		7.20						
	Ch: 108.40m to 117.80m	1	9.40	0.90		8.46			
	Ch: 117.80m to 121.90m		4.10						
	Ch: 121.90m to 128.00m Culvert		6.10						
	Ch: 128.00m to 153.70m		25.70						
	Ch: 153.70m to 160.10m Rd Gap		6.40						
	Ch: 160.10m to 174.10m		14.00						
	Ch: 174.10m to 185.90m	1	12.00	0.90		10.80			
					Total Qty	**64.62**	**Sqm**	**2174.56**	**140520.07**
10	Providing and Fixing pre cast Covering Slab 230mm thick made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc, complete. As per Engineer incharge								
	Nanjappa Layout 1st From Ramchandrapura Main To Vidyaranyapua Main Rd								

AE-09

Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
	Culverts								
	Missing Slabs								
		5	0.60	1.50		4.50			
		1	0.60	1.50		0.90			
		2	0.60	1.50		1.80			
		4	0.60	1.20		2.88			
		3	0.60	1.20		2.16			
		3	0.60	1.20		2.16			
		2	0.60	1.20		1.44			
		3	0.60	1.20		2.16			
					Total Qty	**18.00**	**Sqm**	**5286.33**	**95153.94**
11	Earth work in surface Excavation by mechanical means for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per								
	Vide Premeasurement page no.					296.09			
					Present Qty	**296.09**	**Cum**	**75.04**	**22218.59**
12	Providing, laying, spreading and compacting graded stone aggregate to Wet Mix Macadam specification including premixing the Material with water at OMC in mechanical mix plant								
	Vide Premeasurement page no.					296.09			
					Present Qty	**296.09**	**Cum**	**2763.75**	**818318.74**
13	Providing and applying Primer Coat with SS1 grade Bitumen Emulsion on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.90 kg per								
	Vide Premeasurement page no.					1184.36			
					Present Qty	**1184.36**	**Sqm**	**48.49**	**57429.62**
14	Providing and laying Dense Graded Bituminous Macadam with 40/60 TPH capacity HMP using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 4.5								
	Vide Premeasurement page no.					105.16			
					Present Qty	**105.16**	**Cum**	**10550.52**	**1109445.21**
15	Providing and applying Tack Coat with RS1 Bituminous Emulsion using emulsion pressure distributor at the rate of 0.25 kg/m2 on the prepared bituminous surface cleaned with								
	Vide Premeasurement page no.					3735.93			
					Present Qty	**3735.93**	**Sqm**	**16.16**	**60372.63**
16	Providing and laying Bituminous Concrete with 40/60 TPH capacity hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 5.4 percent of mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade,level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification								
	Asphalt Road								
	Nanjappa Layout 1st From Ramchandrapura Main To Vidyaranyapua Main Rd								
	From Ramchandrapura Main To Vidyaranyapua Main Rd								
	Ch:0.00m to 30.00m	1	30.00	(6.00 + 6.40) / 2		0.04	7.44		
	Ch:30.00m to 60.00m	1	30.00	(6.40 + 5.30) / 2		0.04	7.02		
	Ch:60.00m to 90.00m	1	30.00	(5.30 + 5.10) / 2		0.04	6.24		
	Ch:90.00m to 120.00m	1	30.00	(5.10 + 4.90) / 2		0.04	6.00		
	Ch:120.00m to 150.00m	1	30.00	(4.90 + 4.95) / 2		0.04	5.91		
	Ch:150.00m to 180.00m	1	30.00	(4.95 + 4.65) / 2		0.04	5.76		

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AB-09

Item No	Discription of Item	No		Length		Breadth	Depth	Qty	Unit	Rate	Amount
	Ch:180.00m to 210.00m	1	30.00	4.65 + 2		4.80	0.04	5.67			
	Ch:210.00m to 240.00m	1	30.00	4.80 + 2		4.80	0.04	5.76			
	Ch:240.00m to 270.00m	1	30.00	4.80 + 2		4.90	0.04	5.82			
	Ch:270.00m to 300.00m	1	30.00	4.90 + 2		5.20	0.04	6.06			
	Ch:300.00m to 330.00m	1	30.00	5.20 + 2		4.70	0.04	5.94			
	Ch:330.00m to 360.00m	1	30.00	4.70 + 2		5.10	0.04	5.88			
	Ch:360.00m to 390.00m	1	30.00	5.10 + 2		4.60	0.04	5.82			
	Ch:390.00m to 420.00m	1	30.00	4.60 + 2		5.30	0.04	5.94			
	Ch:420.00m to 450.00m	1	30.00	5.30 + 2		4.70	0.04	6.00			
	Ch:450.00m to 480.00m	1	30.00	4.70 + 2		5.70	0.04	6.24			
	Ch:480.00m to 510.00m	1	30.00	5.70 + 2		5.00	0.04	6.42			
	Ch:510.00m to 540.00m	1	30.00	5.00 + 2		5.25	0.04	6.15			
	Ch:540.00m to 570.00m	1	30.00	5.25 + 2		5.20	0.04	6.27			
	Ch:570.00m to 600.00m	1	30.00	5.20 + 2		5.60	0.04	6.48			
	Ch:600.00m to 605.00m	1	5.00	5.60 + 2		5.50	0.04	1.11			
	8th Cross Rd										
	Ch: 0.00m to 30.00m	1	30.00	5.00 + 2		4.60	0.04	5.76			
	Ch: 30.00m to 60.00m	1	30.00	4.60 + 2		5.10	0.04	5.82			
	Ch: 60.00m to 90.00m	1	30.00	5.10 + 2		5.20	0.04	6.18			
	Ch: 90.00m to 119.40m	1	29.40	5.20 + 2		4.00	0.04	5.41			
	Deduction Of Chamber	-18	1.50	1.00 + 2		1.00	0.04	-1.08			
							Total Qty	**146.02**	**Cum**	**12249.87**	**1788721.12**
17	Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous Surface Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 g/ m2 area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35:2015.The finished surface to be level, uniform and free from streaks and holes										
	Asphalt Road										
	Nanjappa Layout 1st From Ramchandrapura Main To Vidyaranyapua Main Rd										
	From Ramchandrapura Main To Vidyaranyapua Main Rd										
	Ch:0.00m to 30.00m	2		30.00		0.10		6.00			
	Ch:30.00m to 60.00m	2		30.00		0.10		6.00			
	Ch:60.00m to 90.00m	2		30.00		0.10		6.00			
	Ch:90.00m to 120.00m	2		30.00		0.10		6.00			
	Ch:120.00m to 150.00m	2		30.00		0.10		6.00			
	Ch:150.00m to 180.00m	2		30.00		0.10		6.00			
	Ch:180.00m to 210.00m	2		30.00		0.10		6.00			

CAFC

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Assistant Executive Engineer
Vidyaranyapura Sub Divn.
B.B.M.P, Bangalore - 97

AB-09

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
	Ch:210.00m to 240.00m	2	30.00	0.10		6.00			
	Ch:240.00m to 270.00m	2	30.00	0.10		6.00			
	Ch:270.00m to 300.00m	2	30.00	0.10		6.00			
	Ch:300.00m to 330.00m	2	30.00	0.10		6.00			
	Ch:330.00m to 360.00m	2	30.00	0.10		6.00			
	Ch:360.00m to 390.00m	2	30.00	0.10		6.00			
	Ch:390.00m to 420.00m	2	30.00	0.10		6.00			
	Ch:420.00m to 450.00m	2	30.00	0.10		6.00			
	Ch:450.00m to 480.00m	2	30.00	0.10		6.00			
	Ch:480.00m to 510.00m	2	30.00	0.10		6.00			
	Ch:510.00m to 540.00m	2	30.00	0.10		6.00			
	Ch:540.00m to 570.00m	2	30.00	0.10		6.00			
	Ch:570.00m to 600.00m	2	30.00	0.10		6.00			
	Ch:600.00m to 605.00m	2	5.00	0.10		1.00			
	8th Cross Rd								
	Ch: 0.00m to 30.00m	2	30.00	0.10		6.00			
	Ch: 30.00m to 60.00m	2	30.00	0.10		6.00			
	Ch: 60.00m to 90.00m	2	30.00	0.10		6.00			
	Ch: 90.00m to 119.40m	2	29.40	0.10		5.88			
					Total Qty	**144.88**	**Sqm**	**551.83**	**79949.13**
18	Loading and Unloading of Stone Boulder / Stone aggregates / Sand / Kankar / Moorum. (Tipper 14 m3)								
	Vide Premeasurement page no.					864.37			
					Present Qty	**864.37**	**Cum**	**85.43**	**73843.43**
19	Cost of Haulage Excluding Loading and Unloading Taking output 18 t load and lead 10 km = 180 t.km								
	Vide Premeasurement page no.					1106.40			
					Present Qty	**1106.40**	**T.Km**	**121.22**	**134117.58**
								Total	**4891507.38**
								GST 18%	**880471.33**
								Grand Total	**5771978.71**

Contractor

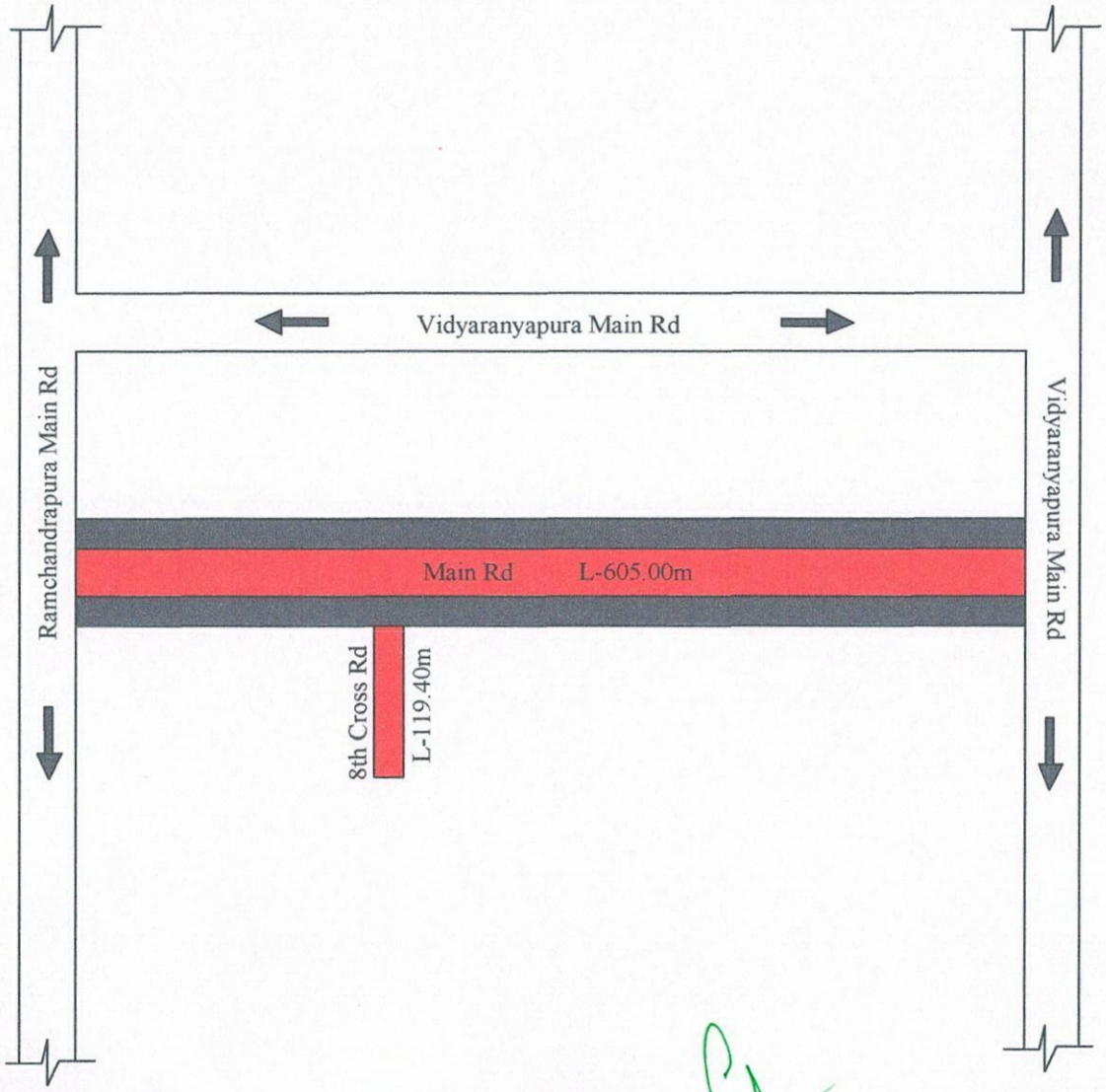
Assistant Engineer

Asst. Executive Engineer,

Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

Name of Work:Improvements to Roads and Drains at Nanjappa Layout Main Road, Cross Roads, Ramchandra Garden and Surrounduing araes in Ward No.14 (Vidyaranyapura)

Nanjappa Circle



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ASPHALT ROAD	
DRAIN DESILT	

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